



SEQUENCE LISTING

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<120> COMPOUNDS AND METHODS FOR TREATMENT OF
THROMBOSIS

<130> 50201/003002

<140> US 10/817,248

<141> 2004-04-02

<150> US 60/459,910

<151> 2003-04-02

<160> 15

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 625

<212> PRT

<213> Homo sapiens

<400> 1

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| Gly | Asp | Ile | Thr | Thr | Val | Phe | Thr | Pro | Ser | Ala | Lys | Tyr | Cys | Gln | Val |
| | 35 | | | | | 40 | | | | | 45 | | | | |
| Val | Cys | Thr | Tyr | His | Pro | Arg | Cys | Leu | Leu | Phe | Thr | Phe | Thr | Ala | Glu |
| | 50 | | | 55 | | | | 60 | | | | | | | |
| Ser | Pro | Ser | Glu | Asp | Pro | Thr | Arg | Trp | Phe | Thr | Cys | Val | Leu | Lys | Asp |
| 65 | | | | 70 | | | | 75 | | | | | | 80 | |
| Ser | Val | Thr | Glu | Thr | Leu | Pro | Arg | Val | Asn | Arg | Thr | Ala | Ala | Ile | Ser |
| | | 85 | | | | | 90 | | | | | | 95 | | |
| Gly | Tyr | Ser | Phe | Lys | Gln | Cys | Ser | His | Gln | Ile | Ser | Ala | Cys | Asn | Lys |
| | 100 | | | | | | 105 | | | | | 110 | | | |
| Asp | Ile | Tyr | Val | Asp | Leu | Asp | Met | Lys | Gly | Ile | Asn | Tyr | Asn | Ser | Ser |
| | 115 | | | | | 120 | | | | | 125 | | | | |
| Val | Ala | Lys | Ser | Ala | Gln | Glu | Cys | Gln | Glu | Arg | Cys | Thr | Asp | Asp | Val |
| | 130 | | | | 135 | | | | | 140 | | | | | |
| His | Cys | His | Phe | Phe | Thr | Tyr | Ala | Thr | Arg | Gln | Phe | Pro | Ser | Leu | Glu |
| 145 | | | | | 150 | | | | 155 | | | | | | 160 |

610 615 620
 Val
 625

 <210> 2
 <211> 624
 <212> PRT
 <213> *Oryctolagus cuniculus*

 <400> 2
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 1 5 10 15
 Ser Gly Glu Cys Val Ile Lys Leu Phe Ser Asp Ile Tyr Phe Gln Gly
 20 25 30
 Gly Asp Ile Thr Thr Val Tyr Thr Pro Asn Ala Lys His Cys Gln Val
 35 40 45
 Val Cys Thr Tyr His Pro Arg Cys Leu Leu Phe Thr Phe Met Ala Glu
 50 55 60
 Ser Ser Val Asp Ser Thr Lys Trp Phe Ser Cys Ile Leu Lys Asp Ser
 65 70 75 80
 Val Thr Glu Ser Leu Pro Lys Val Asn Met Thr Gly Ala Ile Ser Gly
 85 90 95
 Tyr Ser Phe Lys Gln Cys Pro His Gln Leu Ser Ala Cys Asn Lys Asp
 100 105 110
 Ile Tyr Val Asp Leu Asp Met Gln Gly Met Asn Tyr Asn Gly Ser Val
 115 120 125
 Thr Lys Asn Ala Gln Glu Cys Gln Glu Arg Cys Thr Asn Asp Ala His
 130 135 140
 Cys His Phe Phe Thr Tyr Ala Thr Arg Gln Phe Pro Ser Ala Glu His
 145 150 155 160
 Arg Asn Ile Cys Leu Leu Lys Tyr Thr Gln Thr Gly Ala Pro Thr Gly
 165 170 175
 Ile Arg Lys Leu Lys Lys Val Val Ser Gly Phe Ser Leu Lys Ser Cys
 180 185 190
 Ala Leu Ser Asn Leu Ala Cys Ile Arg Asp Ile Phe Pro Ser Thr Val
 195 200 205
 Phe Ala Asp Asn Asn Ile Asp Ser Val Val Ala Pro Asp Ala Leu Val
 210 215 220
 Cys Arg Arg Ile Cys Thr His His Pro Asn Cys Leu Phe Phe Thr Phe
 225 230 235 240
 Phe Ser Gln Glu Trp Pro Lys Glu Ser His Arg Asn Leu Cys Leu Leu
 245 250 255
 Lys Thr Ser Glu Ser Gly Leu Pro Ser Thr Arg Ile His Lys Asn Gln
 260 265 270
 Ala Leu Ser Gly Phe Ser Leu Gln Asn Cys Arg His Ser Ile Pro Val
 275 280 285
 Phe Cys His Ser Ser Phe Tyr Tyr Asp Thr Asp Phe Leu Gly Glu Glu
 290 295 300
 Leu Asp Ile Val Asp Val Lys Gly His Glu Ala Cys Gln Lys Met Cys
 305 310 315 320
 Thr Ser Ala Ile Arg Cys Gln Phe Phe Thr Tyr Ser Ser Ser Gln Glu
 325 330 335
 Ser His Asn Lys Gly Lys Gly Thr Cys Tyr Leu Lys Leu Ser Ser Asn
 340 345 350
 Gly Ser Pro Thr Lys Ile Leu His Gly Arg Gly Gly Ile Ser Gly Tyr
 355 360 365

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Leu | Arg | Leu | Cys | Lys | Met | Asp | Asn | Val | Cys | Thr | Thr | Lys | Ile | Lys |
| 370 | | | | | | 375 | | | | | 380 | | | | |
| Pro | Arg | Ile | Val | Gly | Gly | Ser | Ala | Ser | Leu | Pro | Gly | Glu | Trp | Pro | Trp |
| 385 | | | | | | 390 | | | | 395 | | | | | 400 |
| Gln | Val | Thr | Leu | His | Thr | Val | Ser | Pro | Thr | Gln | Arg | His | Leu | Cys | Gly |
| | | | | 405 | | | | | | 410 | | | | 415 | |
| Gly | Ser | Ile | Ile | Gly | Asn | Gln | Trp | Ile | Leu | Thr | Ala | Ala | His | Cys | Phe |
| | | | 420 | | | | | 425 | | | | | 430 | | |
| Tyr | Gly | Ile | Glu | Ser | Pro | Lys | Ile | Leu | Arg | Val | Tyr | Gly | Gly | Ile | Leu |
| | 435 | | | | | | 440 | | | | 445 | | | | |
| Asn | Gln | Ser | Glu | Ile | Lys | Glu | Asp | Thr | Ala | Phe | Phe | Gly | Val | Gln | Glu |
| 450 | | | | | | 455 | | | | | 460 | | | | |
| Ile | Ile | Ile | His | Asp | Gln | Tyr | Lys | Thr | Ala | Glu | Ser | Gly | Tyr | Asp | Ile |
| 465 | | | | | 470 | | | | | 475 | | | | | 480 |
| Ala | Leu | Leu | Lys | Leu | Glu | Thr | Thr | Met | Asn | Tyr | Thr | Asp | Ser | Gln | Arg |
| | | | | 485 | | | | | 490 | | | | | 495 | |
| Pro | Ile | Cys | Leu | Pro | Ser | Lys | Gly | Asp | Arg | Asn | Val | Ile | Tyr | Thr | Asp |
| | | | 500 | | | | | 505 | | | | | 510 | | |
| Cys | Trp | Val | Thr | Gly | Trp | Gly | Tyr | Arg | Lys | Leu | Arg | Asp | Lys | Ile | Gln |
| | | 515 | | | | | 520 | | | | | 525 | | | |
| Asn | Thr | Leu | Gln | Lys | Ala | Lys | Ile | Pro | Leu | Leu | Ser | Asn | Glu | Glu | Cys |
| 530 | | | | | | 535 | | | | | 540 | | | | |
| Gln | Lys | Arg | Tyr | Gln | Arg | His | Glu | Ile | Thr | Ser | Gly | Met | Ile | Cys | Ala |
| 545 | | | | | 550 | | | | | 555 | | | | | 560 |
| Gly | Tyr | Lys | Glu | Gly | Gly | Lys | Asp | Ala | Cys | Lys | Gly | Asp | Ser | Gly | Gly |
| | | | | 565 | | | | | 570 | | | | | 575 | |
| Pro | Leu | Ser | Cys | Lys | His | Asn | Glu | Val | Trp | His | Leu | Val | Gly | Ile | Thr |
| | | | 580 | | | | | 585 | | | | | 590 | | |
| Ser | Trp | Gly | Glu | Gly | Cys | Ala | Gln | Arg | Glu | Arg | Pro | Gly | Ile | Tyr | Thr |
| | 595 | | | | | | 600 | | | | | 605 | | | |
| Asn | Val | Val | Lys | Tyr | Leu | Asp | Trp | Ile | Leu | Glu | Lys | Thr | Gln | Ala | Pro |
| 610 | | | | | | 615 | | | | | 620 | | | | |

<210> 3
 <211> 624
 <212> PRT
 <213> Mus musculus

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Thr | Ser | Leu | His | Gln | Val | Leu | Tyr | Phe | Ile | Phe | Phe | Ala | Ser | Val |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Ser | Ser | Glu | Cys | Val | Thr | Lys | Val | Phe | Lys | Asp | Ile | Ser | Phe | Gln | Gly |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Gly | Asp | Leu | Ser | Thr | Val | Phe | Thr | Pro | Ser | Ala | Thr | Tyr | Cys | Arg | Leu |
| | 35 | | | | | | 40 | | | | | 45 | | | |
| Val | Cys | Thr | His | His | Pro | Arg | Cys | Leu | Leu | Phe | Thr | Phe | Met | Ala | Glu |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| Ser | Ser | Ser | Asp | Asp | Pro | Thr | Lys | Trp | Phe | Ala | Cys | Ile | Leu | Lys | Asp |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |
| Ser | Val | Thr | Glu | Ile | Leu | Pro | Met | Val | Asn | Met | Thr | Gly | Ala | Ile | Ser |
| | | | | 85 | | | | | 90 | | | | | 95 | |
| Gly | Tyr | Ser | Phe | Lys | Gln | Cys | Pro | Gln | Gln | Leu | Ser | Thr | Cys | Ser | Lys |
| | | | 100 | | | | | 105 | | | | | 110 | | |
| Asp | Glu | Tyr | Val | Asn | Leu | Asp | Met | Lys | Gly | Met | Asn | Tyr | Asn | Ser | Ser |
| | 115 | | | | | | 120 | | | | | 125 | | | |
| Val | Val | Lys | Asn | Ala | Arg | Glu | Cys | Gln | Glu | Arg | Cys | Thr | Asp | Asp | Ala |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 130 | | | | | 135 | | | | 140 | | | | | | |
| His | Cys | Gln | Phe | Phe | Thr | Tyr | Ala | Thr | Gly | Tyr | Phe | Pro | Ser | Val | Asp |
| 145 | | | | | 150 | | | | 155 | | | | | | 160 |
| His | Arg | Lys | Met | Cys | Leu | Leu | Lys | Tyr | Thr | Arg | Thr | Gly | Thr | Pro | Thr |
| | | | | 165 | | | | | 170 | | | | | | 175 |
| Thr | Ile | Thr | Lys | Leu | Asn | Gly | Val | Val | Ser | Gly | Phe | Ser | Leu | Lys | Ser |
| | | | 180 | | | | | | 185 | | | | | 190 | |
| Cys | Gly | Leu | Ser | Asn | Leu | Ala | Cys | Ile | Arg | Asp | Ile | Phe | Pro | Asn | Thr |
| | | 195 | | | | | 200 | | | | | 205 | | | |
| Val | Leu | Ala | Asp | Leu | Asn | Ile | Asp | Ser | Val | Val | Ala | Pro | Asp | Ala | Phe |
| | 210 | | | | | 215 | | | | | 220 | | | | |
| Val | Cys | Arg | Arg | Ile | Cys | Thr | His | His | Pro | Thr | Cys | Leu | Phe | Phe | Thr |
| 225 | | | | | 230 | | | | | 235 | | | | | 240 |
| Phe | Phe | Ser | Gln | Ala | Trp | Pro | Lys | Glu | Ser | Gln | Arg | His | Leu | Cys | Leu |
| | | | 245 | | | | | | 250 | | | | | | 255 |
| Leu | Lys | Thr | Ser | Glu | Ser | Gly | Leu | Pro | Ser | Thr | Arg | Ile | Thr | Lys | Ile |
| | | | 260 | | | | | 265 | | | | | | 270 | |
| His | Ala | Leu | Ser | Gly | Phe | Ser | Leu | Gln | His | Cys | Arg | His | Ser | Val | Pro |
| | 275 | | | | | | 280 | | | | | 285 | | | |
| Val | Phe | Cys | His | Pro | Ser | Phe | Tyr | Asn | Asp | Thr | Asp | Phe | Leu | Gly | Glu |
| | 290 | | | | | 295 | | | | | 300 | | | | |
| Glu | Leu | Asp | Ile | Val | Asp | Val | Lys | Gly | Gln | Glu | Thr | Cys | Gln | Lys | Thr |
| 305 | | | | | 310 | | | | | 315 | | | | | 320 |
| Cys | Thr | Asn | Asn | Ala | Arg | Cys | Gln | Phe | Phe | Thr | Tyr | Tyr | Pro | Ser | His |
| | | | 325 | | | | | | 330 | | | | | | 335 |
| Arg | Leu | Cys | Asn | Glu | Arg | Asn | Arg | Arg | Gly | Arg | Cys | Tyr | Leu | Lys | Leu |
| | | | 340 | | | | | 345 | | | | | 350 | | |
| Ser | Ser | Asn | Gly | Ser | Pro | Thr | Arg | Ile | Leu | His | Gly | Arg | Gly | Gly | Leu |
| | 355 | | | | | 360 | | | | | | 365 | | | |
| Ser | Gly | Tyr | Ser | Leu | Arg | Leu | Cys | Lys | Met | Asp | Asn | Val | Cys | Thr | Thr |
| | 370 | | | | | 375 | | | | | 380 | | | | |
| Lys | Ile | Asn | Pro | Arg | Val | Val | Gly | Gly | Ala | Ala | Ser | Val | His | Gly | Glu |
| 385 | | | | | 390 | | | | | 395 | | | | | 400 |
| Trp | Pro | Trp | Gln | Val | Thr | Leu | His | Ile | Ser | Gln | Gly | His | Leu | Cys | Gly |
| | | | 405 | | | | | | 410 | | | | | | 415 |
| Gly | Ser | Ile | Ile | Gly | Asn | Gln | Trp | Ile | Leu | Thr | Ala | Ala | His | Cys | Phe |
| | | | 420 | | | | | 425 | | | | | 430 | | |
| Ser | Gly | Ile | Glu | Thr | Pro | Lys | Lys | Leu | Arg | Val | Tyr | Gly | Gly | Ile | Val |
| | 435 | | | | | 440 | | | | | | 445 | | | |
| Asn | Gln | Ser | Glu | Ile | Asn | Glu | Gly | Thr | Ala | Phe | Phe | Arg | Glu | Gln | Glu |
| | 450 | | | | | 455 | | | | | 460 | | | | |
| Met | Ile | Ile | His | Asp | Gln | Tyr | Thr | Thr | Ala | Glu | Ser | Gly | Tyr | Asp | Ile |
| 465 | | | | | 470 | | | | | 475 | | | | | 480 |
| Ala | Leu | Leu | Lys | Leu | Glu | Ser | Ala | Met | Asn | Tyr | Thr | Asp | Phe | Gln | Arg |
| | | | 485 | | | | | | 490 | | | | | | 495 |
| Pro | Ile | Cys | Leu | Pro | Ser | Lys | Gly | Asp | Arg | Asn | Ala | Val | His | Thr | Glu |
| | | 500 | | | | | | 505 | | | | | 510 | | |
| Cys | Trp | Val | Thr | Gly | Trp | Gly | Tyr | Thr | Ala | Leu | Arg | Gly | Glu | Val | Gln |
| | 515 | | | | | 520 | | | | | | 525 | | | |
| Ser | Thr | Leu | Gln | Lys | Ala | Lys | Val | Pro | Leu | Val | Ser | Asn | Glu | Glu | Cys |
| | 530 | | | | | 535 | | | | | 540 | | | | |
| Gln | Thr | Arg | Tyr | Arg | Arg | His | Lys | Ile | Thr | Asn | Lys | Met | Ile | Cys | Ala |
| 545 | | | | | 550 | | | | | 555 | | | | | 560 |
| Gly | Tyr | Lys | Glu | Gly | Gly | Lys | Asp | Thr | Cys | Lys | Gly | Asp | Ser | Gly | Gly |
| | | | 565 | | | | | | 570 | | | | | | 575 |
| Pro | Leu | Ser | Cys | Lys | Tyr | Asn | Gly | Val | Trp | His | Leu | Val | Gly | Ile | Thr |
| | | | 580 | | | | | 585 | | | | | | | 590 |

Ser Trp Gly Glu Gly Cys Gly Gln Lys Glu Arg Pro Gly Val Tyr Thr
595 600 605
Asn Val Ala Lys Tyr Val Asp Trp Ile Leu Glu Lys Thr Gln Thr Val
610 615 620

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<211> 708
<212> DNA
<213> Rattus Norvegicus

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accaggggac acctgtgtgg aggtccatc attggaaacc ggtggatatt gacagcggct 120
cattgtttct ctgggacaga gacacctaaa actctgcgtg tctacgggtg tattgtaaat 180
caatcagaaa taaatgaaga taccactttc ttcagggttc aagaaatgat aattcatgat 240
caatatacat cggcagaaaag tgggtttgac attgccctct taaaactgga accggccatg 300
aattacacag attttcagcg gccaatatgc ctgccttcca aaggagacag aaacgtagtt 360
cacacagaat gctgggtgac tggatgggga tacacaaaat caagagatga agtacaaagt 420
actctccaga aagccaaggt accattgggtg tcgaatgaag aatgtcaaac aagatacaga 480
aaacataaaa taaccaacaa ggtgatctgt gcaggatata aggaaggagg gaaggatacg 540
tgtaaggagg attctggagg gcccctgtcc tgcaaacaca atgggggtctg gcacttggtg 600
ggcatcacia gctgggggtga aggtgcggc cagaaagaga ggccgggtgt ctacaccaac 660
gtggccaagt atgtggactg gattttggag aaaactcagt cggaatga 708

<210> 5
<211> 33
<212> DNA
<213> Rattus Norvegicus

<400> 5
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<210> 6
<211> 36
<212> DNA
<213> Rattus Norvegicus

<400> 6
gtggactgga ttttgagaaa aactcagtcg gaatga 36

<210> 7
<211> 27
<212> DNA
<213> Rattus Norvegicus

<400> 7
atggataatg tgtgcacaac taaaatc 27

<210> 8
<211> 30
<212> DNA
<213> Rattus Norvegicus

<400> 8
tccagggcca caaagtgata ccagttgaac 30

<210> 9
 <211> 238
 <212> PRT
 <213> Homo sapien

<400> 9
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 1 5 10 15
 Thr Leu His Thr Ser Pro Thr Gln Arg His Leu Cys Gly Gly Ser
 20 25 30
 Ile Ile Gly Asn Gln Trp Ile Leu Thr Ala Ala His Cys Phe Tyr Gly
 35 40 45
 Val Glu Ser Pro Lys Ile Leu Arg Val Tyr Ser Gly Ile Leu Asn Gln
 50 55 60
 Ser Glu Ile Lys Glu Asp Thr Ser Phe Phe Gly Val Gln Glu Ile Ile
 65 70 75 80
 Ile His Asp Gln Tyr Lys Met Ala Glu Ser Gly Tyr Asp Ile Ala Leu
 85 90 95
 Leu Lys Leu Glu Thr Thr Val Asn Tyr Thr Asp Ser Gln Arg Pro Ile
 100 105 110
 Cys Leu Pro Ser Lys Gly Asp Arg Asn Val Ile Tyr Thr Asp Cys Trp
 115 120 125
 Val Thr Gly Trp Gly Tyr Arg Lys Leu Arg Asp Lys Ile Gln Asn Thr
 130 135 140
 Leu Gln Lys Ala Lys Ile Pro Leu Val Thr Asn Glu Glu Cys Gln Lys
 145 150 155 160
 Arg Tyr Arg Gly His Lys Ile Thr His Lys Met Ile Cys Ala Gly Tyr
 165 170 175
 Arg Glu Gly Gly Lys Asp Ala Cys Lys Gly Asp Ser Gly Gly Pro Leu
 180 185 190
 Ser Cys Lys His Asn Glu Val Trp His Leu Val Gly Ile Thr Ser Trp
 195 200 205
 Gly Glu Gly Cys Ala Gln Arg Glu Arg Pro Gly Val Tyr Thr Asn Val
 210 215 220
 Val Glu Tyr Val Asp Trp Ile Leu Glu Lys Thr Gln Ala Val
 225 230 235

<210> 10
 <211> 235
 <212> PRT
 <213> Mus musculus

<400> 10
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 1 5 10 15
 Thr Leu His Ile Ser Gln Gly His Leu Cys Gly Gly Ser Ile Ile Gly
 20 25 30
 Asn Gln Trp Ile Leu Thr Ala Ala His Cys Phe Ser Gly Ile Glu Thr
 35 40 45
 Pro Lys Lys Leu Arg Val Tyr Gly Gly Ile Val Asn Gln Ser Glu Ile
 50 55 60
 Asn Glu Gly Thr Ala Phe Phe Arg Glu Gln Glu Met Ile Ile His Asp
 65 70 75 80
 Gln Tyr Thr Thr Ala Glu Ser Gly Tyr Asp Ile Ala Leu Leu Lys Leu
 85 90 95
 Glu Ser Ala Met Asn Tyr Thr Asp Phe Gln Arg Pro Ile Cys Leu Pro

<210> 12
 <211> 235
 <212> PRT
 <213> Rattus Norvigicus

<400> 12
 Val Phe Gly Gly Ala Ala Ser Val His Gly Glu Trp Pro Trp Gln Val
 1 5 10 15
 Thr Leu His Thr Gln Gly His Leu Cys Gly Gly Ser Ile Ile Gly
 20 25 30
 Asn Arg Trp Ile Leu Thr Ala Ala His Cys Phe Ser Gly Thr Glu Thr
 35 40 45
 Pro Lys Thr Leu Arg Val Tyr Gly Gly Ile Val Asn Gln Ser Glu Ile
 50 55 60
 Asn Glu Asp Thr Thr Phe Phe Arg Val Gln Glu Met Ile Ile His Asp
 65 70 75 80
 Gln Tyr Thr Ser Ala Glu Ser Gly Phe Asp Ile Ala Leu Leu Lys Leu
 85 90 95
 Glu Pro Ala Met Asn Tyr Thr Asp Phe Gln Arg Pro Ile Cys Leu Pro
 100 105 110
 Ser Lys Gly Asp Arg Asn Val Val His Thr Glu Cys Trp Val Thr Gly
 115 120 125
 Trp Gly Tyr Thr Lys Ser Arg Asp Glu Val Gln Ser Thr Leu Gln Lys
 130 135 140
 Ala Lys Val Pro Leu Val Ser Asn Glu Glu Cys Gln Thr Arg Tyr Arg
 145 150 155 160
 Lys His Lys Ile Thr Asn Lys Val Ile Cys Ala Gly Tyr Lys Glu Gly
 165 170 175
 Gly Lys Asp Thr Cys Lys Gly Asp Ser Gly Gly Pro Leu Ser Cys Lys
 180 185 190
 His Asn Gly Val Trp His Leu Val Gly Ile Thr Ser Trp Gly Glu Gly
 195 200 205
 Cys Gly Gln Lys Glu Arg Pro Gly Val Tyr Thr Asn Val Ala Lys Tyr
 210 215 220
 Val Asp Trp Ile Leu Glu Lys Thr Gln Ser Glu
 225 230 235

<210> 13
 <211> 30
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic

<400> 13
 gtatctctcg agaaaagaat cgttggagga

30

<210> 14
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic

<400> 14

Val Ser Leu Glu Lys Arg Ile Val Gly Gly
1 5 10

<210> 15

<211> 607

<212> PRT

<213> Homo sapiens

<400> 15

Glu Cys Val Thr Gln Leu Leu Lys Asp Thr Cys Phe Glu Gly Gly Asp
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Ile Thr Thr Val Phe Thr Pro Ser Ala Lys Tyr Cys Gln Val Val Cys
20 25 30
Thr Tyr His Pro Arg Cys Leu Leu Phe Thr Phe Thr Ala Glu Ser Pro
35 40 45
Ser Glu Asp Pro Thr Arg Trp Phe Thr Cys Val Leu Lys Asp Ser Val
50 55 60
Thr Glu Thr Leu Pro Arg Val Asn Arg Thr Ala Ala Ile Ser Gly Tyr
65 70 75 80
Ser Phe Lys Gln Cys Ser His Gln Ile Ser Ala Cys Asn Lys Asp Ile
85 90 95
Tyr Val Asp Leu Asp Met Lys Gly Ile Asn Tyr Asn Ser Ser Val Ala
100 105 110
Lys Ser Ala Gln Glu Cys Gln Glu Arg Cys Thr Asp Asp Val His Cys
115 120 125
His Phe Thr Tyr Ala Thr Arg Gln Phe Pro Ser Leu Glu His Arg
130 135 140
Asn Ile Cys Leu Leu Lys His Thr Gln Thr Gly Thr Pro Thr Arg Ile
145 150 155 160
Thr Lys Leu Asp Lys Val Val Ser Gly Phe Ser Leu Lys Ser Cys Ala
165 170 175
Leu Ser Asn Leu Ala Cys Ile Arg Asp Ile Phe Pro Asn Thr Val Phe
180 185 190
Ala Asp Ser Asn Ile Asp Ser Val Met Ala Pro Asp Ala Phe Val Cys
195 200 205
Gly Arg Ile Cys Thr His His Pro Gly Cys Leu Phe Phe Thr Phe Phe
210 215 220
Ser Gln Glu Trp Pro Lys Glu Ser Gln Arg Asn Leu Cys Leu Leu Lys
225 230 235 240
Thr Ser Glu Ser Gly Leu Pro Ser Thr Arg Ile Lys Lys Ser Lys Ala
245 250 255
Leu Ser Gly Phe Ser Leu Gln Ser Cys Arg His Ser Ile Pro Val Phe
260 265 270
Cys His Ser Ser Phe Tyr His Asp Thr Asp Phe Leu Gly Glu Glu Leu
275 280 285
Asp Ile Val Ala Ala Lys Ser His Glu Ala Cys Gln Lys Leu Cys Thr
290 295 300
Asn Ala Val Arg Cys Gln Phe Phe Thr Tyr Thr Pro Ala Gln Ala Ser
305 310 315 320
Cys Asn Glu Gly Lys Gly Lys Cys Tyr Leu Lys Leu Ser Ser Asn Gly
325 330 335
Ser Pro Thr Lys Ile Leu His Gly Arg Gly Gly Ile Ser Gly Tyr Thr
340 345 350
Leu Arg Leu Cys Lys Met Asp Asn Glu Cys Thr Thr Lys Ile Lys Pro
355 360 365

| | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Ile | Val | Gly | Gly | Thr | Ala | Ser | Val | Arg | Gly | Glu | Trp | Pro | Trp | Gln | 370 | 375 | 380 |
| Val | Thr | Leu | His | Thr | Thr | Ser | Pro | Thr | Gln | Arg | His | Leu | Cys | Gly | Gly | 385 | 390 | 395 |
| Ser | Ile | Ile | Gly | Asn | Gln | Trp | Ile | Leu | Thr | Ala | Ala | His | Cys | Phe | Tyr | 405 | 410 | 415 |
| Gly | Val | Glu | Ser | Pro | Lys | Ile | Leu | Arg | Val | Tyr | Ser | Gly | Ile | Leu | Asn | 420 | 425 | 430 |
| Gln | Ser | Glu | Ile | Lys | Glu | Asp | Thr | Ser | Phe | Phe | Gly | Val | Gln | Glu | Ile | 435 | 440 | 445 |
| Ile | Ile | His | Asp | Gln | Tyr | Lys | Met | Ala | Glu | Ser | Gly | Tyr | Asp | Ile | Ala | 450 | 455 | 460 |
| Leu | Leu | Lys | Leu | Glu | Thr | Val | Asn | Tyr | Thr | Asp | Ser | Gln | Arg | Pro | | 465 | 470 | 475 |
| Ile | Cys | Leu | Pro | Ser | Lys | Gly | Asp | Arg | Asn | Val | Ile | Tyr | Thr | Asp | Cys | 485 | 490 | 495 |
| Trp | Val | Thr | Gly | Trp | Gly | Tyr | Arg | Lys | Leu | Arg | Asp | Lys | Ile | Gln | Asn | 500 | 505 | 510 |
| Thr | Leu | Gln | Lys | Ala | Lys | Ile | Pro | Leu | Val | Thr | Asn | Glu | Glu | Cys | Gln | 515 | 520 | 525 |
| Lys | Arg | Tyr | Arg | Gly | His | Lys | Ile | Thr | His | Lys | Met | Ile | Cys | Ala | Gly | 530 | 535 | 540 |
| Tyr | Arg | Glu | Gly | Gly | Lys | Asp | Ala | Cys | Lys | Gly | Asp | Ser | Gly | Gly | Pro | 545 | 550 | 555 |
| Leu | Ser | Cys | Lys | His | Asn | Glu | Val | Trp | His | Leu | Val | Gly | Ile | Thr | Ser | 565 | 570 | 575 |
| Trp | Gly | Glu | Gly | Cys | Ala | Gln | Arg | Glu | Arg | Pro | Gly | Val | Tyr | Thr | Asn | 580 | 585 | 590 |
| Val | Val | Glu | Tyr | Val | Asp | Trp | Ile | Leu | Glu | Lys | Thr | Gln | Ala | Val | | 595 | 600 | 605 |